AMENDMENTS TO THE CLAIMS

The following claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS

(Currently Amended) A tip for use in a plasma arc torch comprising:
 an electrically conductive body; and

a central exit orifice, a plurality of swirl holes, and a plurality of secondary gas holes formed through the electrically conductive body;

a plurality of swirl holes; and

a plurality of secondary gas holes,

wherein the swirl holes direct a plasma gas to generate the plasma stream, the central exit orifice provides for the exit of the plasma stream, and the secondary gas holes direct a secondary gas to stabilize the plasma stream exiting the exit orifice.

(Currently Amended) A tip for use in a plasma arc torch comprising:
 an electrically conductive body; and

a central exit orifice, at least one swirl passage, and at least one swirl passage formed through the electrically conductive body; and

at least one swirl passage, wherein the swirl passage directs a plasma gas to generate a plasma stream.

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(Currently Amended) A tip for use in a plasma arc torch comprising:
 an electrically conductive body;

a central exit orifice and at least one swirl hole formed through the electrically conductive body; and

at least one swirl hole, wherein the swirl hole directs a plasma gas to generate a plasma stream.

4. (Currently Amended) A tip for use in a plasma arc torch comprising:

an electrically conductive body including an annular flange and a distal
face formed on the annular flange;

a central exit orifice formed through the electrically conductive body;

an annular flange formed around the electrically conductive body;

a distal face formed on the annular flange; and

at least one secondary gas passage formed on the distal face,

wherein the secondary gas passage directs a secondary gas to stabilize a plasma stream that exits the tip.

5. (Currently Amended) An improved tip of the type which is used in a plasma arc torch to generate a pilot arc and provide for the exit of a plasma stream from a central exit orifice, wherein the improvement comprises:

an electrically conductive body; and

at least one swirl hole formed in the electrically conductive body of the tip to direct a plasma gas that generates the plasma stream.

6. (Currently Amended) An improved tip of the type which is used in a plasma arc torch to generate a pilot arc and provide for the exit of a plasma stream from a central exit orifice, wherein the improvement comprises:

an electrically conductive body; and

at least one secondary gas hole formed in the conductive body of the tip to direct a secondary gas that stabilizes the plasma stream.

- 7. (Currently Amended) An apparatus for use in a plasma arc torch, the apparatus comprising a single-piece <u>electrically conductive</u> body defining a plurality of plasma gas passageways and a plurality of secondary gas passageways.
- 8. (Currently Amended) A method of operating a plasma arc torch comprising the step of maintaining a constant flow ratio of secondary gas to plasma gas across a range of operating amperages by using a set of <u>different</u> tips, <u>each tip</u> having <u>an electrically conductive body</u>, <u>and</u> at least one swirl passageway and at least one secondary gas passageway <u>formed through the electrically conductive body</u>.
- 9. (Previously Presented) The method according to Claim 8, wherein the flow ratio is approximately 2:1.

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